GPS/GPRS/GSM Camera/Fuel Tracker
UT04 User Manual

1 GPS Tracking System Introduction

GPS Camera Tracker integrates GPS and GSM functions, which could send vehicle location and status to mobile and Internet. It can track the vehicles remotely and transmit image of the vehicle to Internet through camera. The system structure is as below:

2 Product Description

2.1 Specification

GSM module:

- Band:850/900/1800/1900MHz
- Max RF Output: 33.0dBm±2dBm
- Dynamic Input Range: -15 ~ -102dBm

GPS module:

- GPS chip set: SiRF Star III
- Frequency: L1, 1575.42 MHz
- Number of Channel: 20

Interface:

- 1 Camera interface
- 1 extend R232 port
- 1 A/D Port

- general I/O Ports
- 1 Microphone interface

Battery:

- Voltage:3.7V
- Charge:<4.2V
- Li-ion: 200~850mAh

Input Voltage: DC 9~36V

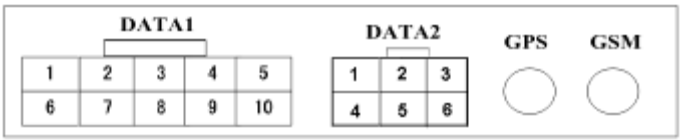
Operating Temperature:-45~65 ℃

2.2 Features:

1. Use Google map, Global free
2. Take photo of the vehicle, and Image transmit to internet.
3. Fuel Check / monitor
4. Real-time locating / inquiry
5. SOS button/Power-cut Alarm
6. Listen by telephone
7. E-fence/Over-speed Alarm
8. Compatible original anti-theft
9. Remote control engine

3 Installation Instructions

3.1 Interface



DATA1

No	Description	No	Description
1	DC+ (9~36V)	6	GND
2	Fuel check line	7	SOS button
3	GND	8	Extend port1(Assist alarm)
4	ACC	9	Extend port2
5	Engine cut_off control	10	Extend port3

DATA2：

Camera port

1、SIM: Port for SIM card

2、PHONE: Connect to earphone

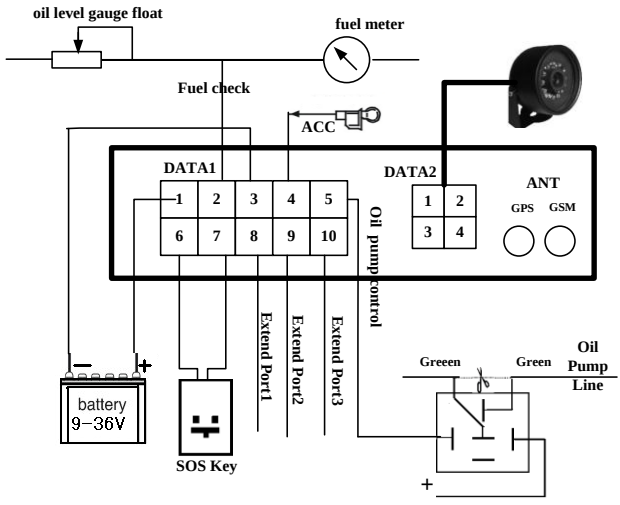
3、MIC: Connect to Microphone

4、LED1: Power light

5、LED2: Status light

6、Reset

3.2 Installation Figure



3.3 Installation and Test:

Please test after installation. If you don't need some functions, you can disconnect corresponding interface. Please make sure ACC, DC, GND installed correctly. Otherwise, the device cannot work. Please check the device status through signal light after power on:

- LED1 is off which indicates there is no power.
- LED2 flashes for one second which indicates GSM registers successfully.
- LED2 flashes three seconds once which indicates GPS is obtaining orientation
- LED2 is on which indicates work successfully that GSM has registered and GPS has obtained the orientation.
- If LED 2 is on 0.1 second then off 0.1 second for more than 3 minutes, please make sure SIM card inserts well. Without SIM card, the device cannot work.

4 SMS Operation Instruction

SMS Format: A******,cmd,param1,param2…

1. ******is the password, Initial Password is 000000
2. cmd is the command ID.
3. Param is the command parameter. Different cmd use different parameters.

All the parameters must use half-angle symbol. Wrong SMS format or wrong password, it will not respond.

4.1 Location Enquiry (000/100)

1. **Google Map reply** Message format: A******,000

e.g. A000000,000

Reply: Longitude E113.93923 Latitude N22.54079 08-10-20 17:38:30,

User could enquiry in HTTP://maps.google.com

you can use the website to Enquiry on google Map

2. **Detailed Address Name reply (OPTIONAL)**

Message format: A******,100

e.g. A000000,100

Reply: 42 Xiacheng North Rd, Wujin, Changzhou, Jiangsu, China

4.2 Change Password (001)

Message format：**A******,001,New Password**

e.g. **A000000,001,123456**

Note:000000 is the old password ,123456 is the new password.

Reply：**Set Password OK!**

4.3 Real-time return setting (002)

Message format：**A******,002,XXX**

XXX=0 is for STOP, value of XXX is within [15~64800] seconds.

e.g. **A000000,002,30**

Message replied after successful setting: **Set time interval (30) OK!** Message contains position information will be sent in every 30 seconds after successful setting.

4.4 Alarm/Listen Number setting

Message format：**A******,003,P,TelNumber**

P=1 is for SOS and listen

P=2 or 3 is the second\ the third listen number.

e.g. **A000000,003,1,136xxxxxxxx**

Message replied after successful setting：Set Telephone OK!

Keep pressing SOS button for 2 seconds. The device will send emergency SMS and dial the number you set as SOS number.

Reply: SOS Pos: Longitude E114.04577 Latitude N22.32405 08-10-20 17:38:30,

If you dial with your listen number, it can be connected automatically after the 7th ring. Then you can listen the voice in the vehicle.

4.5 Over-speed Alarm Setting (005)

Message format： **A******,005,XXX**

XXX=[000,200] (unit: km/h)XXX=00 is close the function.

e.g. **A000000,005,020**

Message replied after successful setting: **Set Over speed (20) KM OK!**

If the vehicle is over speed you set, it will send alarm SMS to SOS mobile number.

20 KM/H Over speed!

4.6 e-Fence Setting(006)

Message format：**A******,006,XX**

XX =[00-50] (Unit:100m) .

When XX=0, e-Fence is OFF. And the maximum limited value of XX is 50*100=5000m. e.g. **A000000,006,10**

Reply: **Set Distance (1000)M OK!** When user is out of the bound region (e.g. 1020m), a prompt message will be sent to the user: **1020m is further than 1000m!**

4.7 Engine Cut-off Setting (007)

Message format: **A******,007,X**

X=0 cut off engine , x=1 resume engine, For security, this command will execute when the speed less than 20Km / h or the ACC is off .

e.g. A000000,007,0

4.8 Fuel data collect（017）

Message format: **A******,017,XX**

Note：XX =[0 , 100], which corresponds to fuel percentage. For example: if the fuel meter shows 50% fuel, (A000000,017,50),and the device checking value is 170, it will reply: Oil interval (50:170)!You can view fuel line in GPS Vehicles Tracking system.

4.9 Open/Close camera function (019)

Message format: **A******,019,X**

X=0 close camera function, x=1 open camera function

e.g. A000000,019,0

5 GPRS Communication Settings

5.1 Set APN (APN(Access Point NAME))

Message format: **A******,012,APN**

Length of APN is limited within 100 characters, E.g:**A000000,012,cmnet**

"cmnet" is the APN of China Mobile

5.2 Set the IP and Port of Gprs_Server

Message format: **A******,010,IP,PORT**

e.g. A000000,010,103.24.155.165,6903

103.24.155.165 is the IP, 6903 is the port

5.3 Open GPRS function

Message format: **A******,011,X**

(note: x=1 open GPRS, X=0 close GPRS)

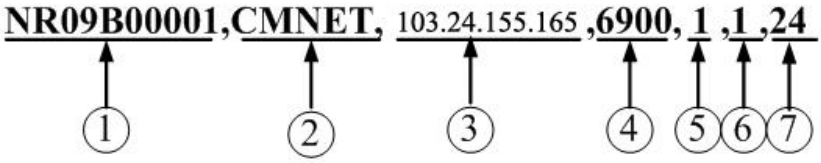
e.g. A000000,011,1

GPRS function will be open, and GPS Camera tracker will send data to Internet,Users can turn off this function though send SMS: A000000,011,0

5.4 Query the GPRS Setting

Message format: **A******,004**

The device will send back GPRS setting parameters. You can check whether the parameter sets correctly by it.



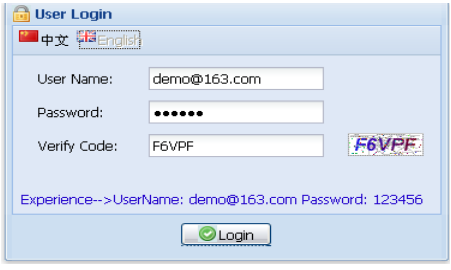
1. Device ID
2. APN (Use correct local APN)
3. Server IP address
4. Server port
5. GPRS open status(0- off ,1- on）
6. GPRS connecting status (0-not connected,1-connected)
7. GSM signal value (1~31), if value<10 is too weak to work well

6 GPS tracking system on website

6.1 User Login

Google Map can support many different languages. It can change language

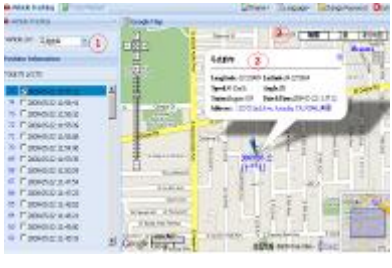
for local language by itself.



6.2 Vehicle real-time tracking

1 choose vehicle →2 map mode → 3.vehicle state, Google map have 3 model: map mode ,satellitic mode and Hybrid mode

Map mode satellites mode：



6.3 Vehicle history record playback

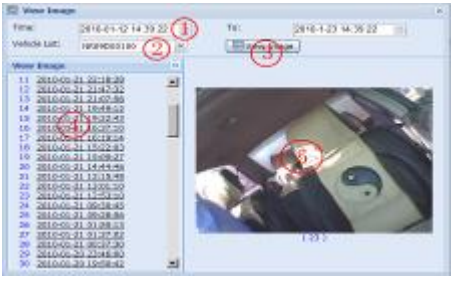
Please point run history review page

1 choose vehicle →2 start time → 3 inquire time → 4.setup review speed

→5 start review process you can know that time date , speed , way and distance sum.

6.4 View image

1 Select date range→2Select Vehicle→3View Image →4Click the time link to display image →5Image



6.5 Fuel Line

Shows as above:

1 It shows normal fuel consumption. The fuel decreases slowly.

2 It shows abnormal fuel consumption, and it decreases straightly. It may be fuel leak or fuel stolen.

3 It shows the fuel increases straightly. It should be in fuel up.

4 It shows the fuel without change. It should be in parking.